

Braz Cardoso Filho

List of Publications by Year in descending order

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84
papers

817
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84
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft-Unbalance Operation for Power Routing in Multiphase Drives. IEEE Transactions on Industry Applications, 2022, 58, 435-443.	3.3	1
2	99% Efficient, interleaved bidirectional DC-DC converter with new interleaved PWM method of parallel-connected Mosfets. International Journal of Circuit Theory and Applications, 2022, 50, 2439-2470.	1.3	3
3	Multifunctional dispatchable microgrids. Applied Energy, 2021, 282, 116165.	5.1	8
4	Assessment of Catastrophic Failure for Phase Control Thyristors in AC Pulsed Applications. IEEE Transactions on Industry Applications, 2021, 57, 3012-3022.	3.3	1
5	Selective Soft-Switching for Thermal Balancing in IGBT-Based Multichip Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3982-3991.	3.7	5
6	The True Unity Power Factor Converter for Basic Oxygen Furnace Charging Cranes. IEEE Transactions on Industry Applications, 2021, 57, 5507-5516.	3.3	8
7	Electric Arc Furnace Reactive Compensation System using True Power Factor - Reactive Compensator Converter. , 2021, , .		2
8	Performance Comparison between Phase Control, Pulse Power and Bidirectional Power Thyristors under ac Surge Conditions. , 2021, , .		0
9	Assessment of a Nine-Phase Induction Motor Drive for Metal Industry Applications. IEEE Transactions on Industry Applications, 2020, 56, 7217-7226.	3.3	7
10	Four-phase interleaved DC-DC step-down converter using coupled inductor for high power application. International Journal of Circuit Theory and Applications, 2020, 48, 1696-1723.	1.3	5
11	Pulse-Shadowing Based Thermal Balancing in Multichip Modules. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	7
12	Some aspects of the electromechanical design of high-speed microturbines for power generation. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, 621-644.	0.3	3
13	An Assessment of Immersion Cooling for Power Electronics: An Oil Volume Case Study. IEEE Transactions on Industry Applications, 2020, 56, 3231-3237.	3.3	9
14	Detection of Gaseous Nuclei in Centrifugal Motor Pumps by Analysis of Their Estimated Torque. IEEE Transactions on Industry Applications, 2020, 56, 2107-2116.	3.3	4
15	A Simple Torque Estimator for In-Service Efficiency Determination of Inverter-Fed Induction Motors. IEEE Transactions on Industry Applications, 2020, 56, 2087-2096.	3.3	15
16	Synchronous-Frame Modeling and Current Control of an Unbalanced Nine-Phase Induction Motor Due to Open Phases. IEEE Transactions on Industry Applications, 2020, 56, 2097-2106.	3.3	21
17	Reactive Power Support in Medium Voltage Networks by Coordinated Control of Distributed Generators in Dispatchable Low-Voltage Microgrid. , 2019, , .		9
18	Oil Immersed Power Electronics and Reliability Enhancement. IEEE Transactions on Industry Applications, 2019, 55, 4407-4416.	3.3	4

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19	Modulation Effects in an Inverter Fed Nine-Phase Induction Motor Drive. IEEE Transactions on Industry Applications, 2019, 55, 6660-6669.	3.3	9
20	IoT-Based Degradation Management for Self-Healing Power Converters. , 2019, , .		6
21	An assessment of a Square-Wave Series Voltage Compensator increasing Power Quality on industrial electronic loads compensating voltage sag and swell. , 2019, , .		3
22	A directional-spectral approach to estimate temperature of outdoor PV panels. Solar Energy, 2019, 183, 782-790.	2.9	14
23	Assessment of a Nine-phase Induction Motor Drive for Metal Industry Applications. , 2019, , .		3
24	The True Unity Power Factor Converter Applied to Photovoltaic Applications. , 2019, , .		2
25	SmartBattery: An Active-Battery Solution for Energy Storage System. , 2019, , .		3
26	An Assessment of Immersion Cooling for Power Electronics: an Oil Volume Case Study. , 2019, , .		1
27	Hybrid Multiple-Active Bridge for Unequal Power Flow in Smart Transformers. , 2019, , .		2
28	Power Routing to Enhance the Lifetime of Multiphase Drives. , 2019, , .		5
29	On the Application of a Power Electronics-based Arc-Flash Suppressor. , 2019, , .		4
30	Common-Mode Overvoltage Mitigation in a Medium-Voltage Pump Motor Transformerless Drive in a Mining Plant. IEEE Transactions on Industry Applications, 2018, 54, 848-857.	3.3	17
31	Harmonic Compensation Using a Series Hybrid Filter in a Centralized AC Microgrid. Journal of Control, Automation and Electrical Systems, 2018, 29, 219-229.	1.2	5
32	Operation of a Grid-Tied Cascaded Multilevel Converter Based on a Forward Solid-State Transformer Under Unbalanced PV Power Generation. IEEE Transactions on Industry Applications, 2018, 54, 5493-5503.	3.3	40
33	Design and Selection of High Reliability Converters for Mission Critical Industrial Applications: A Rolling Mill Case Study. IEEE Transactions on Industry Applications, 2018, 54, 4938-4947.	3.3	26
34	Mitigation of Electric Arc Furnace Transformer Inrush Current Using Soft-Starter-Based Controlled Energization. IEEE Transactions on Industry Applications, 2018, 54, 3909-3918.	3.3	8
35	An assessment of a Square-Wave Series Voltage Compensator increasing Low Voltage Ride Through capability on industrial electronic loads. , 2018, , .		1
36	Indirect Field Oriented Control of an Unbalanced Nine-Phase Induction Motor due to Open Phases. , 2018, , .		5

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37	Oil Immersed Power Electronics for Metal Industry Processes. , 2018, , .		1
38	Magnetic Field Analytical Solution for Non-homogeneous Permeability in Retaining Sleeve of a High-Speed Permanent-Magnet Machine. Mathematical and Computational Applications, 2018, 23, 72.	0.7	5
39	Reduced Switching Modulation of a Nine-Phase Converter. , 2018, , .		4
40	Active Redundancy in the Low Voltage Stage of Smart Transformers. , 2018, , .		1
41	Shifting Resonances in Wind Farms to Higher Frequencies due to TUPF Converters. Journal of Control, Automation and Electrical Systems, 2018, 29, 805-815.	1.2	4
42	Modeling and Control of a Nine-Phase Induction Machine With Open Phases. IEEE Transactions on Industry Applications, 2018, 54, 6576-6585.	3.3	30
43	Forward Dual-Active-Bridge Solid-State Transformer for a SiC-Based Cascaded Multilevel Converter Cell in Solar Applications. IEEE Transactions on Industry Applications, 2018, 54, 6353-6363.	3.3	37
44	A new multifunctional converter based on a series compensator applied to AC microgrids. International Journal of Electrical Power and Energy Systems, 2018, 102, 160-170.	3.3	12
45	Fault ride-through enhancement in DFIG with control of stator flux using minimised series voltage compensator. IET Renewable Power Generation, 2018, 12, 1234-1240.	1.7	4
46	Mission Critical Analysis and Design of IGBT-Based Power Converters Applied to Mine Hoist Systems. IEEE Transactions on Industry Applications, 2017, 53, 5096-5104.	3.3	15
47	Test and simulation of an electric generator driven by a micro-turbine. Electric Power Systems Research, 2017, 147, 224-232.	2.1	18
48	Modeling and control of a nine-phase induction machine with open phases. , 2017, , .		8
49	Impact of active front end topology on wind farm resonance. , 2017, , .		4
50	Design of high-reliable converters for medium-voltage rolling mills systems. , 2017, , .		4
51	Fault analysis in an inverter-fed nine-phase induction machine. , 2017, , .		15
52	Fault-tolerant operation of a nine-phase induction machine with open phases. , 2017, , .		14
53	Evaluation of electrical insulation in three-phase induction motors and classification of failures using neural networks. Electric Power Systems Research, 2016, 140, 263-273.	2.1	26
54	An Active Series Reactor for an Electric Arc Furnace: A Flexible Alternative for Power-Flow Control. IEEE Industry Applications Magazine, 2016, 22, 53-62.	0.3	9

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55	Experimental performance of a low cost micro-CAES generation system. Applied Energy, 2016, 182, 358-364.	5.1	36
56	True Unit Power Factor Active Front End for High-Capacity Belt-Conveyor Systems. IEEE Transactions on Industry Applications, 2016, 52, 2737-2746.	3.3	17
57	Characterization of Electrical Steels for High-Speed Induction Motors Applications: Going Beyond the Common Practices. IEEE Transactions on Industry Applications, 2016, 52, 1350-1358.	3.3	8
58	Low-Voltage PV Power Integration into Medium Voltage Grid Using High-Voltage SiC Devices. IEEE Journal of Industry Applications, 2015, 4, 767-775.	0.9	23
59	Command Generation for Wide-Range Operation of Hysteresis-Controlled Vienna Rectifiers. IEEE Transactions on Industry Applications, 2015, 51, 2373-2380.	3.3	21
60	Thermal degradation management in a Fault-tolerant active NPC converter. , 2015, , .		4
61	Photovoltaic systems representation for high frequency studies - part II: The inverter modeling. , 2015, , .		0
62	Hundreds kW Charging Stations for e-Buses Operating Under Regular Ultra-Fast Charging. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	24
63	Charge Behavior Analysis in Ball Mill by Using Estimated Torque. IEEE Transactions on Industry Applications, 2015, 51, 2600-2606.	3.3	5
64	The True Unity Power Factor converter — A practical filterless solution for sinusoidal currents. , 2015, , .		10
65	Hundreds kW charging stations for e-buses operating under regular ultra-fast charging. , 2014, , .		8
66	Characterization of electrical steels for high speed induction motor applications: Going beyond the standards. , 2014, , .		2
67	A critical analysis of standard methods for characterization of electrical steels: Losses in high speed induction motors. , 2014, , .		6
68	Aspects of the operation of regular ultra fast charging e-Bus in high grade BRT routes. , 2014, , .		5
69	Current control of three level neutral point clamped voltage source rectifiers using selective harmonic elimination. , 2014, , .		16
70	Application of solid state transformers in utility scale solar power plants. , 2014, , .		20
71	Protecting Control Panels Against Voltage Sags: Using a Square-Wave Series Voltage Compensator. IEEE Industry Applications Magazine, 2014, 20, 24-33.	0.3	9
72	Thermal stress and high temperature effects on power devices in a fault-resilient NPC IGCT-based converter. , 2014, , .		0

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73	Incipient Detection of Cavitation Phenomenon in Centrifugal Pumps. IEEE Transactions on Industry Applications, 2014, 50, 120-126.	3.3	50
74	A Thermal Management Approach to Fault-Resilient Design of Three-Level IGCT-Based NPC Converters. IEEE Transactions on Industry Applications, 2013, 49, 2684-2691.	3.3	9
75	Fourier-Based PLL Applied for Selective Harmonic Estimation in Electric Power Systems. Journal of Power Electronics, 2013, 13, 884-895.	0.9	3
76	Increasing long belt-conveyors availability by using fault-resilient medium voltage AC drives: Part II — Reliability and maintenance assessment. , 2012, , .		5
77	Load Torque Signature Analysis: An alternative to MCSA to detect faults in motor driven loads. , 2012, , .		18
78	Increasing Long-Belt-Conveyor Availability by Using Fault-Resilient Medium-Voltage AC Drives. IEEE Transactions on Industry Applications, 2012, 48, 1708-1716.	3.3	16
79	Detection of incipient cavitation phenomenon in a centrifugal pump. , 2012, , .		4
80	A thermal management approach to fault-resilient design of three-level IGCT-based NPC converters. , 2012, , .		1
81	Increasing long belt-conveyors availability by using fault-resilient medium voltage AC drives. , 2011, , .		6
82	A fourier-based PLL for Single-Phase grid connected systems. , 2010, , .		7
83	Operation of dynamic voltage restorers without zero sequence compensation capability. , 2010, , .		0
84	Analysis of the operation of a D-STATCOM in unbalanced distribution systems under voltage disturbances. , 2010, , .		7